Request to Archive

With The National Centers for Environmental Information For NEXRAD Quantitative Precipitation Estimates (QPE) Climate Data Record (CDR) Provided by NCEI

2017-03-24

This information will be used by NCEI to conduct an appraisal and make a decision on the request.

1. Who is the primary point of contact for this request?

Brian Nelson

NCDC

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2. Name the organization or group responsible for creating the dataset.

DOC/NOAA/NESDIS/NCEI > National Centers for Environmental Information, NESDIS, NOAA, U.S. Department of Commerce

3. Provide an overview summarizing the scope of data you want to archive. Describe the outputs, data variables, including their measurement resolution and coverage.

This CDR dataset will contain Radar reflectivity, Precipitation Flag, and Radar Quality Index for 5-minute at 1km regular grid over CONUS from 2001/01 to 2012/12. Radar and Gauge Quantitative Precipitation Estimates (QPE) and Radar only Quantitative Precipitation Estimates at an hourly scale at 1km regular grid over CONUS. This data is used for numerous two-dimensional multiple-sensor products offer assistance for hail, wind, tornado, quantitative precipitation estimation forecasts, convection, icing, and turbulence diagnosis.

4. What is the time period covered by the dataset? (YYYY-MM-DD, YYYY-MM or YYYY)

From 2001-01-01 to 2012-12-31

5. Edition or version number(s) of the dataset:

1

6. Approximate date when the dataset was or will be released to the public:

2017-07-17

7. Who are the expected users of the archived data? How will the archived data be used?

CDR users. This data is used for numerous two-dimensional multiple-sensor products offer assistance for hail, wind, tornado, quantitative precipitation estimation forecasts, convection, icing, and turbulence diagnosis.

8. Has the dataset undergone user evaluation and/or an independent review process? Did NCEI participate in design reviews?

This is an NCEI developed data set along with NSSL that has undergone internal design as well as internal project management. And now is under CDRP standards.

9. Describe the dataset's relationship to other archived datasets, such as earlier versions or related source data. If this is a new version, how does it improve upon the previous version(s)?

The NEXRAD level II archive is the input for this data set.

10. List the input datasets and ancillary information used to produce the data.

The NEXRAD level II archive is the input for this data set. The RUC data is also an input to the production.

11. List web pages and other links that provide information on the data.

http://www.nssl.noaa.gov/projects/q2/

- 12. List the kinds of documents, metadata and code that are available for archiving. For example, data format specifications, user guides, algorithm documentation, metadata compliant with a standard such as ISO 19115, source code, platform/instrument metadata, data/process flow diagrams, etc.
- 1. CDR CATBD and CDR source code
- 13. Indicate the data file format(s).
- 1. netCDF-4

14. Are the data files compressed?

gzip

15. Provide details on how the files are named and how they are organized (e.g., file_name_pattern_YYYYMM.tar in monthly aggregations).

NEXRADQPE_v01r00_CDR_RGQPE_d20150101_c20151105.tar.gz

NEXRADQPE_v01r00_CDR_PRATE_d20150101_c20151105.tar.gz

NEXRADQPE_v01r00_CDR_MOS2D_d20150101_c20151105.tar.gz

NEXRADQPE_v01r00_CDR_PFLAG_d20150101_c20151105.tar.gz

MRMSReanalysis_v01r00_RQIND_d20150101_c20151105.tar.gz

16. Explain how to access sample data files and/or a file listing for previewing. If it is not available now, when will it be available?

Request from NCEI CEB to order from CLASS for the MRMS QPE. The updated version will be available through the CDR project.

17. What is the total data volume to be submitted?

Historic Data: all historic data or data submitted as a completed collection.

Total Data Volume: 3.5TB Number of Data Files: 16418

18. Are later updates, revisions or replacement files anticipated? If so, explain the conditions for submitting these additional data to the archive.

As improvements to the algorithm happen there should be a reprocessing.

19. Describe the server that will connect to the ingest server at NCEI for submitting the data.

Physical Location: Asheville,NC

System Name: CICSNC

System Owner: Cooperative Institute for Climate and Satellites - North Carolina

Additional Information: NC State University

- 20. What are the possible methods for submitting the data to NCEI? Select all that apply.
- 1. SFTP PUSH
- 21. Identify how you would like NCEI to distribute the data. Web access support depends on the resources available for the dataset.
- 1. User interface to order and stage data for download
- 2. Direct download links
- 3. Advanced web services (e.g., THREDDS Catalog Service)
- 22. Will there be any distribution, usage, or other restrictions that apply to the data in the archive?

No known constraints apply to the data.

23. Discuss the rationale for archiving the dataset and the anticipated benefits. Mention any risks associated with not archiving the dataset at NCEI.

This data is used for numerous two-dimensional multiple-sensor products offer assistance for hail, wind, tornado, quantitative precipitation estimation forecasts, convection, icing, and turbulence diagnosis. Creates a CDR for a domain/theme that doesn't have many CDRs, precipitation.

24. Are the data archived at another facility or are there plans to do so? Please explain.

No

25. Is there an existing agreement or requirement driving this request to archive? Have you already contacted someone at NCEI?

CDRP agreement. Will mirror/update to existing SA for MRMS QPE from 2016. AB-SA-01608_R0

26. Do you have a data management plan for your data?

No

27. Have funds been allocated to archive the data at NCEI?

CDRP funding

28. Identify the affiliated research project, its sponsor, and any project/grant ID as applicable.

Climate Data Record Program

29. Is there a desired deadline for NCEI to archive and provide access to the data?

Archive by: 2017-06-16 Accessible by: 2017-07-31

30. Add any other pertinent information for this request.

MOU is currently being worked between NCEI, NSSL and Univ. Oklahoma to allow data to more than .mil and .gov users.